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TEST REPORT

Client:	Bruhat Bangalore Mahanagara Palike		
Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11		
Consultants:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore		
Contractor:	M/s Slp Infra Engineers Pvt Ltd.		
Total Weight:	10000	gms	

SIEVE ANALYSIS

Type of Material:	20 mm down size	**Proposed Use**	Concrete	
Sample Location:	Plant/At site	**Date of Sampling**	15.03.19	
		Date of Testing	15.03.19	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	252	252	2.52	97.48	95 - 100
10.00 mm	4832	5084	50.84	49.16	25 - 55
4.75 mm	4210	9294	92.94	7.06	0 - 10
Pan	706	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

Note:

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TEJUS CONSULTANTS

Authorised Signatory

Assistant Executive Engineer
Central Division
Bangalore Zone
Bangalore

CIVIL EXPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Test No.: CECTC-IWD-049-2019-20 Date: 16.03.2019

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Bruhat Bangalore Mahanagar Palike.**
Agency : **M/s. SLP Infra Engineering Pvt Ltd.,** Contractor, Bangalore.
Name of Work : Package-05 1.Improvement to Roads and Drains at AshrayaBadavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11.
Sample Identification : 8mm,10mm. Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 16.03.2019

Sl.No	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	8	0.395	515	558	17
2	10	0.617	561	615	18

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For Civil Experts

Authorised Signature

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

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TEST REPORT

Client:	Bruhat Bangalore Mahanagara Palike				
Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11				
Consultants:	TEJUS CONSULTANTS				
Contractor:	M/s Slp Infra Engineers Pvt Ltd.				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material:	12.5 mm down size		**Proposed Use**	CONCRETE	
Sample Location:	At Site/Plant		**Date of Sampling**	18.03.19	
			Date of Testing	18.03.19	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	528	528	5.28	94.72	90-100
10.0	4695	5223	52.23	47.77	40-85
4.75	4555	9778	97.78	2.22	0-10
Pan	222	10000			

Remarks: ✓ Satisfactory / Not Satisfactory

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Authorised Signatory

A.D

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TEST REPORT

Clients:	Bruhat Bangalore Mahanagara Palike
Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Consultants:	TEJUS CONSULTANTS
Contractor:	M/s Slp Infra Engineers Pvt Ltd.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material:	12.5 mm down size		Proposed Use	CONCRETE	
Sample Location:	At Site/Plant		Date of Sampling	18.03.19	
			Date of Testing	18.03.19	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	556	556	5.56	94.44	90-100
10.0	4672	5228	52.28	47.72	40-85
4.75	4532	9760	97.60	2.40	0-10
Pan	240	10000			

Remarks: ✓ Satisfactory / Not Satisfactory

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Authorised Signatory

TEJUS CONSULTANTS
No.[illegible] 8th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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TEST REPORT

Client:	Bruhat Bangalore Mahanagara Palike
Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Consultants:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor:	M/s Slp Infra Engineers Pvt Ltd.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material:	20 mm down size	Proposed Use	Concrete	
Sample Location:	Plant/At site	Date of Sampling	18.03.19	
		Date of Testing	18.03.19	

Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	262	262	2.62	97.38	95 - 100
10.00 mm	4832	5094	50.94	49.06	25 - 55
4.75 mm	4220	9314	93.14	6.86	0 - 10
Pan	686	10000			

Remarks: ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Client:	BRUHAT BENGALORE MAHANAGARA PALIKE
Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Consultants:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor:	M/s Sip Infra Engineers Pvt Ltd.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material:	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Location/Source:	At: Site/Plant	**Date of Sampling**	18.03.19
Period of Soaking:	24 hours	**Date of Testing**	18.03.19

Sl.No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
(A)	Weight of saturated surface dry sample gm.	648	679	658	
(B)	Weight of oven - dry sample gm.	641	672	648	
(C)	Weight of Pycnometer Filled with water gm	1275	1275	1275	
(D)	Weight of Pycnometer + sample + water gm	1682	1701	1690	
(E)	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.660	2.656	2.667	**2.661**
(F)	Absorption (%) $\frac{(A-B)*100}{B}$	1.092	1.042	1.543	**1.226**

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TEST REPORT

	Bruhat Bangalore Mahanagara Palike
	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
	Tejus Consultants, Bangalore
	M/s Slp Infra Engineers Pvt Ltd.

SIEVE ANALYSIS

[illegible] grms			
[illegible] (River Sand/ M sand)	**Proposed Use**	concrete	
	Date of Sampling	18.03.19	
	Date of Testing	18.03.19	

Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
0	0	0	100.00	**100**
210	210	7.00	93.00	**90 - 100**
306	516	17.20	82.80	**75 - 100**
422	938	31.27	68.73	**55 - 90**
486	1424	47.47	52.53	**35 -59**
710	2134	71.13	28.87	**8-30**
642	2776	92.20	7.80	**0 - 10**
224	3000			-

Satisfactory / Not Satisfactory

[illegible] without the written approval of the laboratory.
[illegible] on the tests carried out on the samples

[illegible] reported within 15days from the date of testing.

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TEST REPORT

Client:	BRUHAT BENGALORE MAHANAGARA PALIKE
Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Consultants:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor:	M/s Slp Infra Engineers Pvt Ltd.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material:	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Source/Source:	At Site/Plant	**Date of Sampling**	18.03.19
Period of Soaking:	24 hours	**Date of Testing**	18.03.19

Sl No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
(A)	Weight of saturated surface dry sample gm.		648	678	658	
(B)	Weight of oven - dry sample gm.		641	670	648	
(C)	Weight of Pycnometer Filled with water gm		1275	1275	1275	
(D)	Weight of Pycnometer + sample + water gm		1682	1701	1690	
(E)	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.660	2.659	2.667	**2.662**
(F)	Absorption (%)	$\frac{(A-B)*100}{B}$	1.092	1.194	1.543	**1.276**

Note:

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TEST REPORT

Client:	Bruhat Bangalore Mahanagara Palike
Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Consultants:	Tejus Consultants, Bangalore
Contractor:	M/s Slp Infra Engineers Pvt Ltd.

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material:	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Sample Condition:	At Site/Plant	**Date of Sampling**	18.03.19
		Date of Testing	18.03.19

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	208	208	6.93	93.07	90 - 100
2.36 mm	302	510	17.00	83.00	75 - 100
1.18 mm	402	912	30.40	69.60	55 - 90
600 µm	482	1394	46.47	53.53	35 -59
300 µm	760	2154	71.80	28.20	8-30
150 µm	638	2792	93.07	6.93	0 - 10
Pan	208	3000			-

Remarks: Satisfactory / Not Satisfactory

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Test Report on Cement

Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client:	Bruhat Bangalore Mahanagar Palike
Consultant:	TEJUS CONSULTANTS
Contractor:	M/s Slp Infra Engineers Pvt Ltd.
Sample ID:	Cement
Date of Sample Tested:	18.03.19
Sample Supplied By:	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	35Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	26.00%	25 % to 35

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Test Report on Cement

Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client:	Bruhat Bangalore Mahanagar Palike
Consultant:	TEJUS CONSULTANTS
Contractor:	M/s Slp Infra Engineers Pvt Ltd.
Sample ID	Cement
Date of Sample Tested:	05.03.19
Sample Supplied By:	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	37 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	346 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	2mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client:	Bruhat Bangalore Mahanagar Palike
Consultant:	TEJUS CONSULTANTS
Contractor:	M/s Slp Infra Engineers Pvt Ltd.
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	19.03.19	26.03.19	7 days	8.120	22500	215	9.56	9.53
2	19.03.19	26.03.19	7 days	8.130	22500	219	9.73	
3	19.03.19	26.03.19	7 days	8.140	22500	209	9.29	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client:	Bruhat Bangalore Mahanagar Palike
Consultant:	TEJUS CONSULTANTS
Contractor:	M/s Sip Infra Engineers Pvt Ltd.
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Cube No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	19.03.19	16.04.19	28 days	8.130	22500	350	15.56	15.35
2	19.03.19	16.04.19	28 days	8.138	22500	346	15.38	
3	19.03.19	16.04.19	28 days	8.146	22500	340	15.11	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client:	Bruhat Bangalore Mahanagar Palike
Consultant:	TEJUS CONSULTANTS
Contractor:	M/s Slp Infra Engineers Pvt Ltd.
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	19.03.19	27.03.19	7 days	8.122	22500	210	9.33	9.21
2	19.03.19	27.03.19	7 days	8.146	22500	208	9.24	
3	19.03.19	27.03.19	7 days	8.142	22500	204	9.07	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client:	Bruhat Bangalore Mahanagar Palike
Consultant:	TEJUS CONSULTANTS
Contractor:	M/s Slp Infra Engineers Pvt Ltd.
Grade of concrete:	M25
Size of cubes:	150x150x150 mm
Reference IS code:	IS:516-1959

SI.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	19.03.19	17.04.19	14days	8.136	22500	305	13.56	13.63
2	18.03.19	17.04.19	14days	8.142	22500	307	13.64	
3	18.03.19	17.04.19	14days	8.148	22500	308	13.69	

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